

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Currently amended): A method for updating an ~~the~~ image on a computer display device, said method comprising:

logically dividing the image ~~computer display device~~ into a plurality of zones;
storing each zone of the plurality of zones by a starting point of each zone;
tracking revised zones using the starting point of each revised zone ~~which zones are revised;~~ and
updating only the revised zones on the image ~~display device~~.

Claim 2 (Original): The method of claim 1 wherein each zone of said plurality of zones is predefined.

Claim 3 (Original): The method of claim 1 wherein each zone of said plurality of zones has the same dimensions and number of pixels as the other zones.

Claim 4 (Original): The method of claim 1 wherein each zone of said plurality of zones is predefined and has the same dimensions and number of pixels as the other zones.

Claim 5 (Currently amended): The method of claim 4 wherein the number of zones vertically aligned on the image ~~display device~~ is equal to the number of zones horizontally aligned on the image ~~display device~~.

Claim 6 (Currently amended): The method of claim 1 wherein the steps of logically dividing the image ~~computer display device~~ into a plurality of zones, and tracking revised zones using the starting point of each revised zone ~~which zones are revised~~, are both performed by a graphical processing unit using a video random access memory.

Claim 7 (Currently amended): The method of claim 1 wherein the steps of logically dividing the image ~~computer display device~~ into a plurality of zones, and tracking revised zones using the starting point of each revised zone ~~which zones are revised~~, are both performed by a central processing unit using a system random access memory.

Claim 8 (Currently amended): The method of claim 1 wherein the step of updating only the revised zones on the image display device is performed by a graphical processing unit writing the revised zones from a video random access memory to a frame buffer.

Claim 9 (Currently amended): The method of claim 1 wherein the step of updating only the revised zones on the image display device is performed by a central processing unit writing the revised zones from a system random access memory directly to a frame buffer.

Claim 10 (Currently amended): The method of claim 1 wherein the steps of logically dividing the image computer display device into a plurality of zones and tracking revised zones using the starting point of each revised zone ~~which zones are revised~~ are both performed by a graphical processing unit in a video random access memory; and wherein the step of updating only the revised zones on the image display device is performed by said graphical processing unit writing the revised zones from said video random access memory to a frame buffer.

Claim 11 (Currently amended): The method of claim 1 wherein the steps of logically dividing the image computer display device into a plurality of zones and tracking revised zones using the starting point of each revised zone ~~which zones are revised~~ are both performed by a central processing unit in a system random access memory; and wherein the step of updating only the revised zones on the image display device is performed by said central processing unit writing the revised zones from said system random access memory directly to the frame buffer.

Claim 12 (Original): The method of claim 11 wherein said method is executed in conjunction with the use of a text-enhancement technology.

Claim 13 (Original): The method of claim 12 wherein said text-enhancement technology is a sub-pixel anti-aliased.

Claim 14 (Original): The method of claim 1 wherein said method is executed in conjunction with the use of a text-enhancement technology.

Claim 15 (Original): The method of claim 14 wherein said text-enhancement technology is sub-pixel anti-aliased.

Claim 16 (Original): The method of claim 1 wherein said method is executed on a computer system that favors a system-to-video flow of data traffic.

Claim 17 (Currently amended): The method of claim 1 wherein system random access memory used for logically dividing the image computer display device into a plurality of zones for tracking revised zones using the starting point of each revised zone ~~which zones are revised~~ is allocated at startup.

Claim 18 (Currently amended): A computer-readable medium having computer-readable instructions for updating an ~~the~~ image on a computer display device, said computer-readable instructions comprising:

instructions for logically dividing the image computer display device into a plurality of zones;

instructions for storing each zone of the plurality of zones by a starting point of each zone;

instructions for tracking revised zones using the starting point of each revised zone ~~which zones are revised~~; and

instructions for updating only the revised zones on the image display device.

Claim 19 (Original): The computer-readable medium of claim 18 further comprising instructions for predefining a plurality of zones.

Claim 20 (Currently amended): The computer-readable medium of claim 18 further comprising instructions for dividing the image display into a plurality of zones each having the same dimensions and number of pixels.

Claim 21 (Currently amended): The computer-readable medium of claim 18 further comprising instructions for predefining a plurality of zones and for dividing the image display, wherein all zones in said plurality of zones each have the same dimensions and number of pixels.

Claim 22 (Currently amended): The computer-readable medium of claim 21 further comprising instructions for dividing the image display into a plurality of zones wherein the number of zones in said plurality of zones vertically aligned on the image display device is equal to the number of zones in said plurality of zones horizontally aligned on the image display device.

Claim 23 (Currently amended): The computer-readable medium of claim 18 further comprising instructions for the graphical processing unit to logically divide the image display device into a plurality of zones in video random access memory and thereafter track those zones in said plurality of zones that are revised using the starting point of each revised zone.

Claim 24 (Currently amended): The computer-readable medium of claim 18 further comprising instructions for the central processing unit to logically divide the image display device into a plurality of zones in RAM and thereafter track those zones in said plurality of zones that are revised using the starting point of each revised zone.

Claim 25 (Currently amended): The computer-readable medium of claim 18 further comprising instructions for a graphical processing unit to update only a plurality of revised zones on the image a display device by writing the plurality of revised zones from a video random access memory to a frame buffer.

Claim 26 (Currently amended): The computer-readable medium of claim 18 further comprising instructions for a central processing unit to update only a plurality of revised zones on the image a display device by writing the plurality of revised zones from a RAM to a frame buffer.

Claim 27 (Original): The computer-readable medium of claim 26 wherein said method is executed in conjunction with the use of a text-enhancement technology.

Claim 28 (Original): The computer-readable medium of claim 18 wherein said method is executed in conjunction with the use of a text-enhancement technology.

Claim 29 (Original): The computer-readable medium of claim 18 wherein said method is executed on a computer system that favors a system-to-video flow of data traffic.

Claim 30 (Currently amended): The computer-readable medium of claim 18 wherein system random access memory used for logically dividing the image computer display device into a plurality of zones for tracking revised zones using the starting point of each revised zone ~~which zones are revised~~ is allocated at startup.

Claim 31 (Currently amended): A system for updating an ~~the~~ image on a computer display device, said system comprising:

a memory;

a shadow memory in said memory, said shadow memory comprising a plurality of zones;

a zone grid in said memory for tracking by a starting point of each zone whether changes occur in each zone of said plurality of zones;

a processing unit for rendering revisions to said shadow memory and tracking by a starting point of each zone in said zone grid which zones of said plurality of zones are revised;

a frame buffer to which the processing unit, based on the information stored in the zone grid, writes only those zones that have been revised from the shadow memory to said frame buffer; and

a display device coupled to said frame buffer.

Claim 32 (Original): The system of claim 31 wherein said processing unit is a central processing unit.

Claim 33 (Original): The system of claim 31 wherein said processing unit is a graphical processing unit.

Claim 34 (Original): The system of claim 31 wherein said memory is system random access memory.

Claim 35 (Original): The system of claim 31 wherein said processing unit is video random access memory.

Claim 36 (Currently amended): A system for updating an ~~the~~ image on a computer display device, said system comprising:

means for logically dividing the image ~~computer display device~~ into a plurality of zones;

means for storing each zone of the plurality of zones by a starting point of each zone;

means for tracking revised zones using the starting point of each revised zone ~~which zones are revised~~; and

means for updating only the revised zones on the image ~~display device~~.